1. National Foundation Phase Maths Olympiad - Answer sheet template
2. National Foundation Phase Maths Olympiad - Grade two - final round - 2006
3. National Foundation Phase Maths Olympiad - Grade two - round 1 - 2007
4. National Foundation Phase Maths Olympaid - Grade2 - Pilot Paper
5. National Foundation Phase Maths Olympiad - Grade two - final round- 2007
6. National Foundation Phase Maths Olympiad - Grade two - round 1 - 2006

National Foundation Phase Maths Olympiad - Answer sheet template
Template for the answer sheet for maths olympiads

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

ANSWER SHEET

NAME OF LEARNER:________________________

GRADE:_________

Circle the correct answer after doing your working.

1		A	B	C
2		A	B	C
3		A	B	C
4		A	B	C

5		A	B	C
6		A	B	C
7		A	B	C
8		A	B	C
9		A	B	C
10		A	B	C
11		A	B	C
12		A	B	C
13		A	B	C
14		A	B	C
15		A	B	C

MARKS: Numbers 1-10: 10 x 1 = 10

Numbers 11-15 : 5 x 2 = 10 (TOTAL: 20)

National Foundation Phase Maths Olympiad - Grade two - final round - 2006
Maths olympiad questions for grade two

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

GRADE TWO – FINAL ROUND PAPER: 2006 QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

MARKS: 20

NAME OF LEARNER:______________________________________

NAME OF SCHOOL:_______________________________________

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.

2. These are multiple choice questions. Circle the correct answer.

3. Use blank pages for working. Circle the answer after you have done the working.

4. You are not allowed to use the calculator.

5. Read the question carefully before answering. Don’t rush.

6. Your teacher will read the question to you.

7. First 10 questions – 1 mark each.

8. Questions 11-20: 2 marks each.

ENJOY THE OLYMPIAD

Test Questions:

Exercise 1

Write down the 7th term of the sequence:

7; 10; 13; 16; . . .

Exercise 2

Write down the unit’s digit of the 45th number.

5; 10; 15; 20; . . .

Exercise 3

Terry counted in 2’s as follows:

2; 4; 6; 8; 10; . . .

What position does the number 130 occupy?

Exercise 4

Each letter in the following addition problem represents a digit. Find the digit B.

$$\begin{array}{r} A\ A \\ +\ B\ A \\ \hline 1\ 1\ 2 \\ \hline \end{array}$$

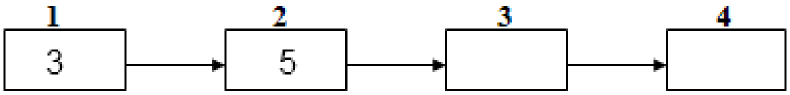
Exercise 5

Find the value of Δ:
Equation:

$$45 - \Delta = \Delta + \Delta + \Delta + \Delta + \Delta - \Delta$$

Exercise 6

To move from one block to the next the rule is double the number and subtract one.



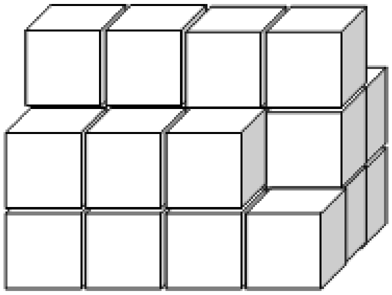
What number is in block 4?

Exercise 7

Give the largest two digit even number such that the sum of the digits is 9 .

Exercise 8

How many blocks are there in this stack?



Exercise 9

2 more than ¼ of the cakes is 6. How many cakes are there?

Exercise 10

Guess the number I stand for.

* I am a 3 digit number.

* My hundred’s digit is 1 more than my unit’s digit.

* My ten’s digit can be counted in 3’s.

* The sum of my digits is 16.

Exercise 11

Try to find out what * is doing to the 2 numbers.

3 * 4 = 5

7 * 3 = 8

1 * 1 = 0

4 * 4 = 6

Now determine the answer to :

8 * 5

Exercise 12

In a 50 metre race Jen beat Tara by 4 metres. Tara beat Cindy by 3 metres. If all three walk at the same pace then how far will Cindy be behind Jen in a 100 metre race ?

Exercise 13

White and green beads are arranged as in the following diagram.

W W G G G W W G G G W W ….

If this arrangement has 102 beads then work out the number of green beads .

Exercise 14

Five friends live on the same straight road. Ren lives to the right of Lindy. Pat lives to the right of Lindy but to the left of Jessy. Al lives to the left of Lindy. Pat lives between Al and Ren. Who lives between Pat and Jessy ?

Exercise 15

Stan collected R10 more for charity than Liz. Liz collected R20 less for charity than Connie. A total of R270 was collected for charity.What amount was collected by Liz ?

National Foundation Phase Maths Olympiad - Grade two - round 1 - 2007
Maths olympiad questions for grade two

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

GRADE TWO – ROUND ONE PAPER: 2007 QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

MARKS: 20

NAME OF LEARNER:_____________________________________

NAME OF SCHOOL:______________________________________

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.

2. These are multiple choice questions. Circle the correct answer.

3. Use blank pages for working. Circle the answer after you have done the working.

4. You are not allowed to use the calculator.

5. Read the question carefully before answering. Don’t rush.

6. Your teacher will read the question to you.

7. First 10 questions – 1 mark each.

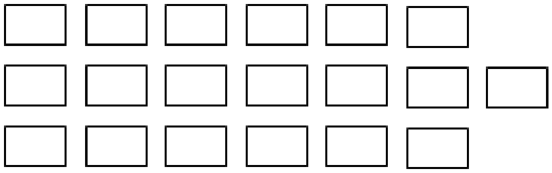
8. Questions 11-20: 2 marks each.

ENJOY THE OLYMPIAD

Test Questions:

Exercise 1

Count the number of rectangles in this arrangement:



(A) 17 (B) 19 (C) 21

Exercise 2

Find the value of Δ:
Equation:

$$56 + 34 = 50 + \Delta$$

(A) 40 (B) 50 (C) 60

Exercise 3

Find $\frac{1}{2}$ of 36.

(A) 16 (B) 18 (C) 20

Exercise 4

Double 39 equals?

(A) 74 (B) 76 (C) 78

Exercise 5

Write down the value of Δ in the following addition problem:

$$\begin{array}{rcc} & 5 & 3 \\ + & \triangle & \square \\ \hline & 8 & 0 \\ \hline \end{array}$$

(A) 3 (B) 2 (C) 1

Exercise 6

After receiving 18 beads from Precious, Denny had 60 beads. How many beads did she start off with?

(A) 32 (B) 36 (C) 42

Exercise 7

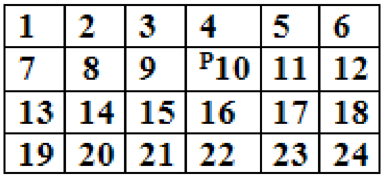
Write down the value of ∆ in this subtraction problem:

$$\begin{array}{rcc} & 7 & 5 \\ - & 3 & \triangle \\ \hline & 3 & 8 \\ \hline \end{array}$$

(A) 5 (B) 7 (C) 9

Exercise 8

There are 24 numbered blocks below:

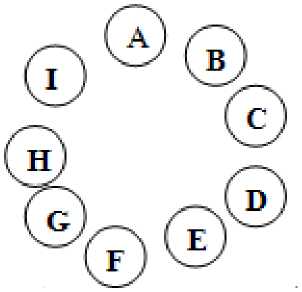


1	2	3	4	5	6
7	8	9	P10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

P moved 3 blocks to the left, 2 blocks down and 4 blocks to the right. On which block is P now on?

(A) 23 (B) 24 (C) 17

Exercise 9



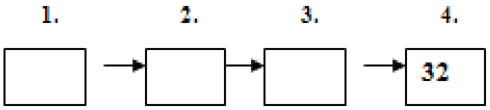
Honeybee moves from one flower to the next in the following way:

It started at flower I and moved to flower G and then to flower E (skipping one flower each time). Honeybee visited 50 flowers.Which flower did Honeybee end up in?

(A) G (B) E (C) C

Exercise 10

Links and Chains. Double the number each time to move from one block to the other. Which number is in block 1?



(A) 2 (B) 4 (C) 8

Exercise 11

Find the mystery number:

X	**Y**	**Z**

* I am a 3 digit number.

* Y is 1 more than Z.

* X + Z = Y

* X + Y + Z = 10

(A) 165 (B) 154 (C) 343

Exercise 12

Lily gave 10 sweets to Alvin and $\frac{1}{4}$ to Lee. She still had 26 sweets. How many sweets did Lily start with?

(A) 45 (B) 48 (C) 54

Exercise 13

Pearl had 3 teaspoons (15ml) of medicine 2 times each day. After how many days will the medicine in a 200ml container be finished?

(A) 5 days (B) 6 days (C) 7 days

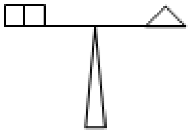
Exercise 14

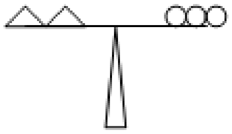
Thabo is 3 years older than Bishop. Bishop is 6 years younger than Jeff. Jeff is 15 years old. What is Thabo’s age?

(A) 9 (B) 12 (C) 14

Exercise 15

The following is in balance:





Which is the lightest?

(A) □ (B) Δ (C) O

National Foundation Phase Maths Olympaid - Grade2 - Pilot Paper INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD Grade Two Pilot Paper

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

GRADE TWO - PILOT PAPER QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES TIME: 08:30-09:45 MARKS: 20

NAME OF LEARNER:____

NAME OF SCHOOL:____

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.
2. These are multiple choice questions. Circle the correct answer.

3. Use blank pages for working. Circle the answer after you have done the working.
4. You are not allowed to use the calculator.
5. Read the question carefully before answering. Don’t rush.
6. Your teacher will read the question to you.
7. First 10 questions – 1 mark each.
8. Questions 11-20: 2 marks each.

ENJOY THE OLYMPIAD

TEST QUESTIONS

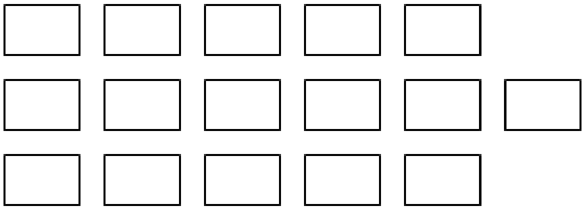
Exercise:

Problem:

Count the number of rectangles in this arrangement. Select your answers from the following options: (A) 15 (B) 16 (C) 17

Exercise:

Problem:



Exercise:

Problem:

Find the value of **Φ** 33 + 17 = 30 + **Φ** Select your answer from the following options: (A) 10 (B) 15 (C) 20

Exercise:

Problem:

Find ½ of 36. Select your answer from the following options: (A) 18 (B) 48 (C) 72

Exercise:

Problem: Double 24 equals: (A) 12 (B) 24 (C) 48

Exercise:

Problem:

Write down the value of **Φ** in the following addition problem. Select your answer from the following options : (A) 4 (B) 5 (C) 6

	3	3
+	**Φ**	8
=	9	2

Exercise:

Problem:

After giving 12 oranges to her friends Thandi still had 9 oranges left. How many oranges did she start off with? Select your answer from the following options: (A) 3 (B) 21 (C) 30

Exercise:

Problem:

Write down the value of **Φ** in the subtraction problem. Select your answers from the following options: (A) 6 (B) 7 (C) 8

	4	5
-	2	**Φ**
=	1	8

Exercise:

Problem:

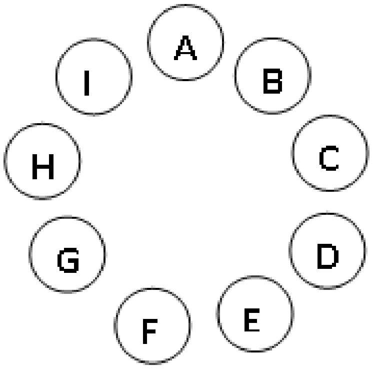
There are 24 numbered blocks below. The **Φ** symbol is placed in block number 8. The **Φ** symbol is moved 3 blocks to the right, 2 blocks down and 1 block left. On which block is the **Φ** symbol now on ? Select your answer from the following: (A) 15 (B) 16 (C) 22

1	2	3	4	5	6
7	**Φ**8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

Exercise:

Problem:

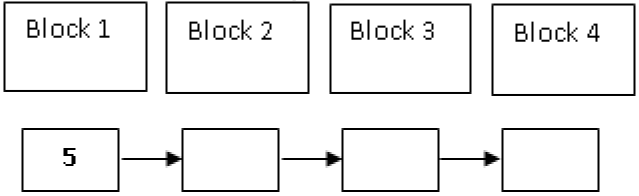
Sweety moves from one circle to the next (A to B to C to D and so on).Sweety visited 49 circles starting from A.Which circle did Sweety end up in ? Select your answer from the following: (A) B (B) C (C) D



Exercise:

Problem:

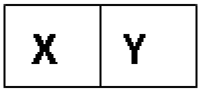
Links and Chains - Double the number each time to move from one block to the other. Give the number in block 4. Select your answer from the following options: (A) 40 (B) 30 (C) 20



Exercise:

Problem:

Find the mystery number. It is a 2 digit number. X is double Y and X + Y = 9 Select your answer from the following(A) 45 (B) 36 (C) 63



Exercise:

Problem:

After giving ¼ of his sweets Les still had 24 sweets. How many sweets did Les give away ? Select your answer from the following options: (A) 32 (B) 24 (C) 8

Exercise:

Problem:

Pearl had 3 teaspoons of 5ml of medicine each day. After 5 days how much of medicine is left in the 100 ml container ? Select your answer from the following options: (A) 20ml (B) 25ml (C) 30ml

Exercise:

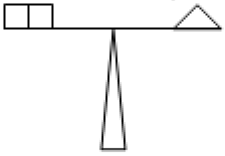
Problem:

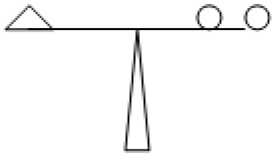
Mandy is 2 years older than Betsy.Betsy is 3 years younger than Carol.If Carol is 9 years old then what is Mandy’s age ? Select your answer from the following options: (A) 8 (B) 10 (C) 12

Exercise:

Problem:

The following is in balance. Which is the heaviest ? Select your answer from (A) The square weight (B) The triangular weight (C) The round weight.





National Foundation Phase Maths Olympiad - Grade two - final round-2007
Maths olympiad questions for grade two

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

GRADE TWO – FINAL ROUND PAPER: 2007 QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

MARKS: 20

NAME OF LEARNER:_________________________________

NAME OF SCHOOL:__________________________________

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.

2. Use the answer booklet for your answers.

3. Use the space provided for your working.

4. You are not allowed to use the calculator.

5. Read the question carefully before answering. Don’t rush.

6. Your teacher will read the question to you.

7. First 10 questions – 1 mark each.

8. Questions 11-20: 2 marks each.

Test Questions:

Exercise 1

Write down the 9th term of the sequence:

7; 11; 15; 19; . . .

Exercise 2

Write down the unit’s digit of the 80th number.

5; 10; 15; 20; . . .

Exercise 3

Lindiwe counted in 3’s as follows:-

3; 6; 9; 12; 15; . . .

What position does the number 75 occupy ?

Exercise 4

Each letter in the following subtraction problem represents a digit. Find the digit B.

$$\begin{array}{r} A\ B \\ +\,B\ A \\ \hline 1\ 8 \\ \hline \end{array}$$

Exercise 5

Find the value of Δ:
Equation:

$$60 - \Delta = \Delta + \Delta + \Delta + \Delta + \Delta$$

Exercise 6

Find the value of Δ:
Equation:

$$\Delta + \Delta + \Delta + \Delta = \Delta + \Delta + 48 + \Delta$$

Exercise 7

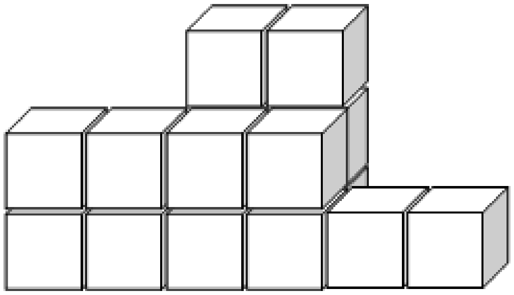
Neels counted in 9’s as follows:

9; 18; 27; 36; 45; . . .

Write down the 45th number.

Exercise 8

How many blocks are there in this stack?



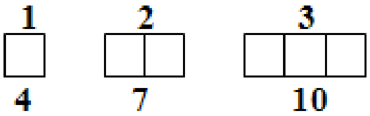
Exercise 9

5 health bars cost R23. How many health bars could you get for R69?

Exercise 10

Machine A takes 20 minutes to make 7 large boxes. Machine B takes 10 minutes to make 3 small boxes. If both machines run for 1 hour, how many more large boxes than small boxes will there be?

Exercise 11



4 matchsticks are used to make 1 square. 7 matchsticks are used to make 2 squares. 10 matchsticks are used to make 3 squares. How many squares can be made from 61 matchsticks ?

Exercise 12

Molly has 2 secret numbers.

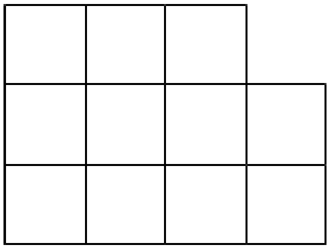
* When she subtracted the 2 numbers she had 15.

* When she doubled the smaller number she found it was same as the larger number.

What is the larger number?

Exercise 13

How many squares of all sizes are there in the figure below:



Exercise 14

Jeremy wrote down all the numbers from 1 to 50. He then struck off all the numbers that can be counted in 2’s and 3’s. How many numbers were not struck off?

Exercise 15

Given the following, guess the day of the week:

* Yesterday was not Tuesday.

* Tomorrow is not Tuesday.

* The name does not start with S or F.

* The day after tomorrow is not Thursday.

National Foundation Phase Maths Olympiad - Grade two - round 1 - 2006
Olympiad paper for Grade 2 maths

INSTITUTE FOR ADVANCEMENT OF MATHEMATICS AND SCIENCE (IAMS) NATIONAL FOUNDATION PHASE MATHEMATICS OLYMPIAD

GRADE TWO – ROUND ONE PAPER: 2006 QUESTION BOOKLET

DURATION: 1 HOUR 15 MINUTES

MARKS: 20

NAME OF LEARNER:___________________________________

NAME OF SCHOOL:____________________________________

INSTRUCTIONS TO LEARNERS:

1. You are expected to answer 15 questions.

2. These are multiple choice questions. Circle the correct answer.

3. Use blank pages for working. Circle the answer after you have done the working.

4. You are not allowed to use the calculator.

5. Read the question carefully before answering. Don’t rush.

6. Your teacher will read the question to you.

7. First 10 questions – 1 mark each.

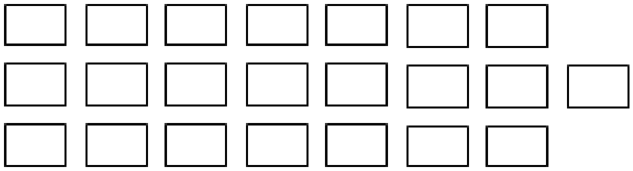
8. Questions 11-20: 2 marks each.

ENJOY THE OLYMPIAD

Test Questions:

Exercise 1

Count the number of rectangles in this arrangement:



(A) 21 (B) 22 (C) 23

Exercise 2

Find the value of Δ:
Equation:

$$43 + 27 = 60 + \Delta$$

(A) 10 (B) 15 (C) 20

Exercise 3

Find ½ of 48.

(A) 24 (B) 30 (C) 36

Exercise 4

Double 28 equals?

(A) 14 (B) 28 (C) 56

Exercise 5

Write down the value of Δ in the following addition problem:

$$\begin{array}{rcc} & 4 & 8 \\ + & \triangle & 6 \\ \hline & 8 & 4 \\ \hline \end{array}$$

(A) 2 (B) 3 (C) 4

Exercise 6

After giving fifteen oranges to her friends Thandi still had 10 oranges left. How many oranges did she start off with?

(A) 5 (B) 25 (C) 35

Exercise 7

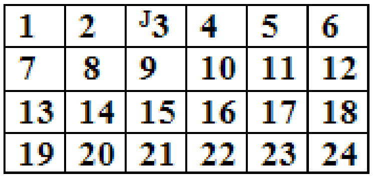
What is the value of ∆ in the following subtraction problem?

$$\begin{array}{rcc} & 5 & 4 \\ - & 2 & \triangle \\ \hline & 2 & 8 \\ \hline \end{array}$$

(A) 5 (B) 6 (C) 7

Exercise 8

There are 24 numbered blocks below:

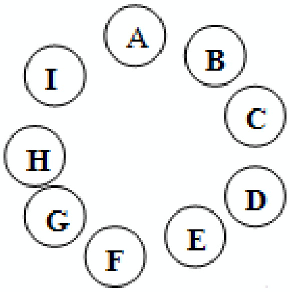


1	2	^{J}3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
19	20	21	22	23	24

J moved three blocks to the right, 2 blocks down and one block to the left. On which block is J now on?

(A) 16 (B) 17 (C) 18

Exercise 9



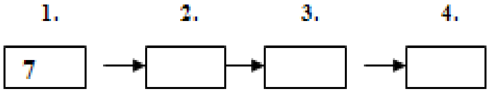
Sweety moves from one circle to the next (from A to B to C to D and so on.) Sweety visited 68 circles starting from A. Which circle did Sweety land up on?

(A) D (B) E (C) F

Exercise 10

Links and chains.

Double the number each time to move from one block to the other:



Give the number in block 4.

(A) 56 (B) 28 (C) 58

Exercise 11

Find the mystery number:

X	**Y**

* This is a 2 digit number

* X is double Y

* X + Y = 9

(A) 45 (B) 36 (C) 63

Exercise 12

After giving ¼ of his sweets away, Les still had 24 sweets. How many sweets did Les give away?

(A) 32 (B) 24 (C) 8

Exercise 13

Pearl had 3 teaspoons (5 ml) of medicine every day. After 5 days how much medicine is left in the 100 ml bottle?

(A) 20 ml (B) 25 ml (C) 30 ml

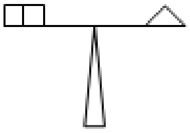
Exercise 14

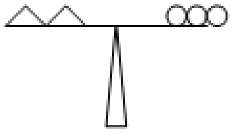
Mandy is two years older than Betsy. Betsy is three years younger than Carol. If Carol is nine years old then what is Mandy's age?

(A) 8 (B) 10 (C) 12

Exercise 15

The following is in balance:





Which is the heaviest?

(A) □ (B) △ (C) ○